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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	NAMED INVENTOR ATTORNEY DOCKET NO.		
10/640,980	08/14/2003	Lawrence B. Jansen	112455-145576	9232	
	7590 09/30/200 ILLIAMSON & WYA	EXAMINER			
PACWEST CENTER, SUITE 1900 1211 SW FIFTH AVENUE			NASSER, ROBERT L		
PORTLAND, C			ART UNIT	PAPER NUMBER	
			3735		
			MAIL DATE	DELIVERY MODE	
			09/30/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	Application No.		Applicant(s)	
		10/640,98	30	JANSEN ET AL.		
		Examiner		Art Unit		
		ROBERT	L. NASSER	3735		
Period fo	The MAILING DATE of this communicat or Reply	tion appears on the	cover sheet with the c	correspondence ac	ddress	
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL Issions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, if eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF TH 7 CFR 1.136(a). In no ever ation. ry period will apply and w by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin Il expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	•	
Status						
2a)⊠	Responsive to communication(s) filed on This action is FINAL . 2b)[Since this application is in condition for closed in accordance with the practice upon the communication of the closed in accordance with the practice upon the closed in th	☐ This action is n allowance except	for formal matters, pro		e merits is	
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠ 8)□ Applicati	Claim(s) 1-4,6-8,24-28 and 31-36 is/are 4a) Of the above claim(s) is/are v Claim(s) 31-33 is/are allowed. Claim(s) 1-4, 6-8, 24-28, 36 is/are reject Claim(s) 34 and 35 is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Experimental contents and subject to be a subject to by the Experimental contents and subject to be a subject to be a subject to by the Experimental contents and subject to be a subject	vithdrawn from co ted. n and/or election re	nsideration.			
_	The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	n to the drawing(s) be correction is requir	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 C	, ,	
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-6) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 8, 24, 25 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al 4388166. Suzuki in figure 1D shows a device including an electrochemically active surface, i.e. cathode 2, which is made of platinum, at least one nub, the material surrounding lead 8a, that extends radially outwardly from the electroactive surface 2, and a membrane system 5, 6, 7, comprising an enzyme layer 6, which covers and encircles or surrounds both nub and the active surface. Claim 3 is rejected in that the device is a lengthwise body. Claim 4 is rejected in that the device is circular in cross section. Claims 8 and 24 are rejected in that the membrane system has multiple layers and defines an exterior surface of the device. Claim 32 is rejected in that there is a second nub 1, which extends from a position close to the surface radially outwardly from the surface. Claim 33 is rejected in that the surface 2 extends through the nubs. Claim 36 is rejected in that the membrane system contacts the corner of the nub, which is the intersection of two surfaces. As such, it contacts two surfaces of the nub.

Claims 1-4, 6, 24, and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Pungor et al 4354913. Pungor et al shows a device including an electrochemically active surface made of platinum, a nub 11 of dielectric material, and an enzyme containing membrane 7, which covers and surrounds or encircles the nub

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and the active surface. Claims 2 and 6 rejected in that nub 11 is an annular disc, or plate. Claim 3 is rejected in that the device is a lengthwise body. Claim 4 is rejected in that the device is circular in cross section. Claim 24 is rejected in that the membrane forms an exterior of the device.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-8, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown 3900382 in view of Cozette et al 5063081. Brown shows an ion specific sensor including an electrochemically active surface 13, a nub of dielectric material 14, which extends radially outward from the active surface, and a membrane 18 and 19, where membrane 18 covers and surrounds the nub and the active surface. The membrane does not contain an enzyme. Brown states it can detect any ion.

Cozette is selected from many references which include an enzyme in the membrane for sensing ammonium ions. Hence, it would have been obvious to modify Brown to locate an enzyme in the membrane, as it is merely the substitution of one known detection scheme for another. As such, the enzyme would surround the nub and the active surface. Claims 2 is rejected in that the nub is the form of a annular planar element, which is a plate. Claims 3 and 4 are rejected in the active surface is part of a lengthwise body, which is circular in cross section. Claim 7 is rejected in that the nub is displaced longitudinally from the active surface. Claim 8 is rejected in that the

membrane system has two membranes 18 and 19. Claim 24 is rejected in that the membrane defines an outer surface of the device. Claim 25 is rejected in that Cozette teaches that platinum is a known electrochemically active surface. As such, it would have been obvious to modify Brown to further as a platinum electrode, as it is merely the simple substitution of one known equivalent material for another. Claim 26 is rejected in that layer 14 of Brown is an insulation layer. The examiner takes official notice that polymide is a known insulation material. Hence, it would have been obvious to modify Brown to use polymide for layer 14, as it is merely the substitution of one known equivalent material for another.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. Layer 11 is a plastic insulation layer. The examiner takes official notice that polymide is a known insulation material. Hence, it would have been obvious to modify Suzuki et al to use polymide for layer 11, as it is merely the substitution of one known equivalent material for another.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pungor et al. Layer 11 is a plastic insulation layer. The examiner takes official notice that polymide is a known insulation material. Hence, it would have been obvious to modify Pungor et al to use polymide for layer 11, as it is merely the substitution of one known equivalent material for another.

Claims 8, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pungor at all in view of Wilson 5165407. As noted by applicant in the specification, Wilson teaches that a permselective layer and an interferent excluding layer are well

known to be used in a glucose sensor. Hence, it would have been obvious to modify Pungor et al to use a layer like that of that of Wilson, as it is merely the substitution of on known sensor configuration for another.

Claims 31-33 is allowable. Claim 31 defines over the over the art of record in that none of the art has two dielectric nubs surrounded by an enzymatic membrane, which form a cavity along the surface, in combination with the other claim features. Claims 32 and 33 define over the art in that none of the art has two nubs spaced along the active surface, as claimed.

Claims 34 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the art has the membrane system shaped as claimed between the two nubs.

Applicant's arguments filed 6/25/2008 have been fully considered but they are not persuasive.

Applicant has asserted that the membrane system of Suzuki does not cover and surround the active surface and the nub. The examiner does not understand this argument, as the membrane system of certainly abuts the tips of the elements and encircles them. Hence, it covers the exposed portions of both. Clarification is required. If applicant means that it does not cover the active surface, then there are two problems: 1) the claims don't say the entire surface and 2) applicant's membrane system does not cover the active surface on all sides.

With respect to Pungor, in figure 2, again the examiner does not understand how the membrane does not cover and surround the nubs and active surface.

With respect to Brown, the examiner notes that the term cover does not meant o be in direct contact with. A roof covers a basement even if it does not contact it. A ceiling covers a floor. Hence, the outer membrane 19, covers the active surface 13.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT L. NASSER whose telephone number is (571)272-4731. The examiner can normally be reached on m-f 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert L. Nasser Jr/ Primary Examiner Art Unit 3735

RLN April 13, 2008